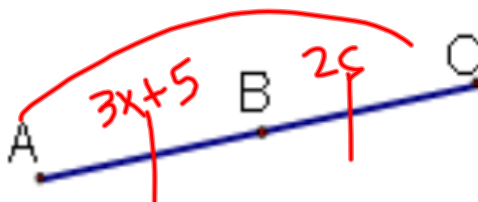


Quiz 2.1-2.4 Tomorrow!

2.1 Segment Bisects

B is the midpoint

$$AB = BC$$



ex
AB = 7

$$BC = 7$$

$$AC = 14$$

ex
AC = 12

$$AB = 6$$

$$BC = 6$$

ex
AB = $3x + 5$
CB = 26

$$3x + 5 = 26$$

$$x = 7$$

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Find the midpoint.

C(-3, 8)

D(-7, 5)

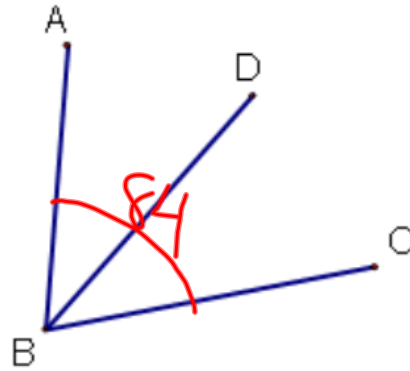
$$M\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}\right)$$

$$\left(\frac{-3 + -7}{2}, \frac{8 + 5}{2}\right)$$

$$M(-5, 6.5)$$

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2.2 Angle Bisectors

 \overrightarrow{BD} bisects $\angle ABC$ 

$$\begin{array}{l} \text{EX} \\ m\angle ABD = 20 \\ m\angle ABC = \end{array}$$

40

$$\begin{array}{l} \text{EX} \\ m\angle ABC = 84 \\ m\angle DBC = \end{array}$$

42

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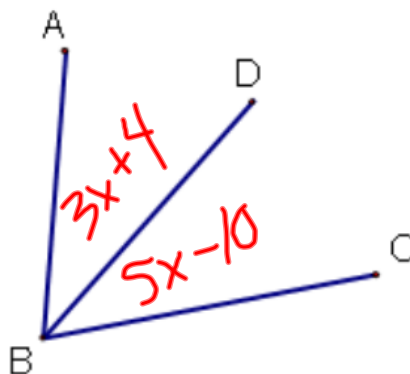
2.2 Angle Bisectors

 \overrightarrow{BD} bisects $\angle ABC$

$$\begin{array}{r} 3x + 4 = 5x - 10 \\ -3x \quad -3x \\ \hline 4 = 2x - 10 \\ 14 = 2x \\ 7 = x \end{array}$$

$$\begin{array}{l} \text{EX} \\ m\angle ABD = 3x + 4 \\ x = \end{array}$$

$$m\angle DBC = 5x - 10$$



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2.3 Complementary and Supplementary

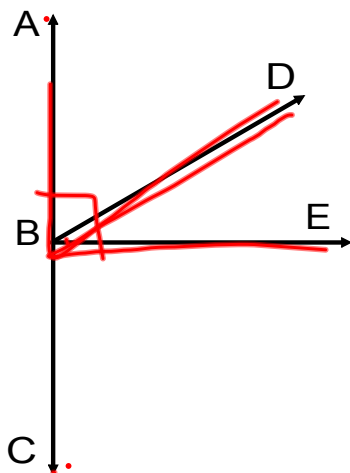
$m\angle MNO = 50$

$m\angle MNO = 47$

Complement? 40Complement? 43Supplement? 130Supplement? 133

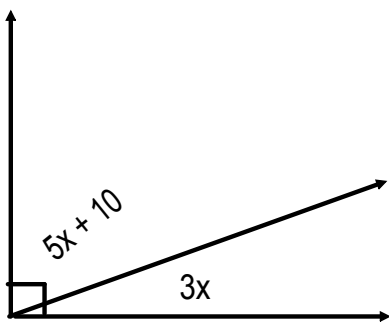
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Are the angles complementary, supplementary, or neither?

 $\angle ABD$ & ~~$\angle DBC$~~ $\angle ABC$ & ~~$\angle CBE$~~ $\angle ABD$ & ~~$\angle DBE$~~

Suppl.
N
Compl.

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$$5x + 10 + 3x = 90$$

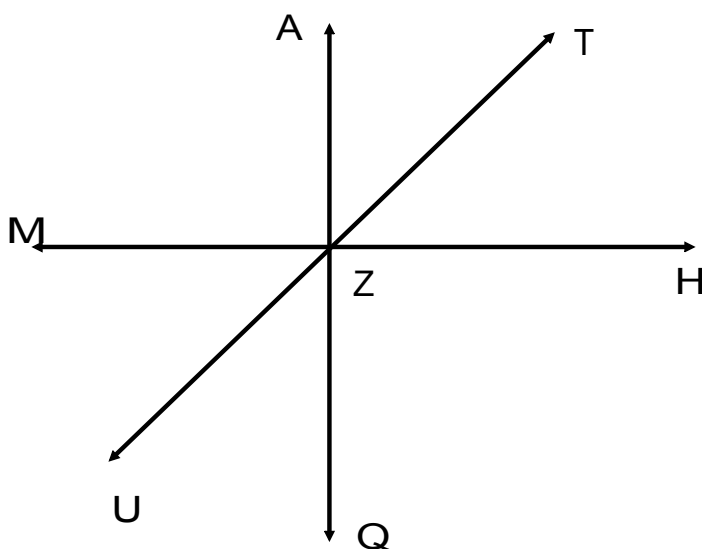
$$8x + 10 = 90$$

$$8x = 80$$

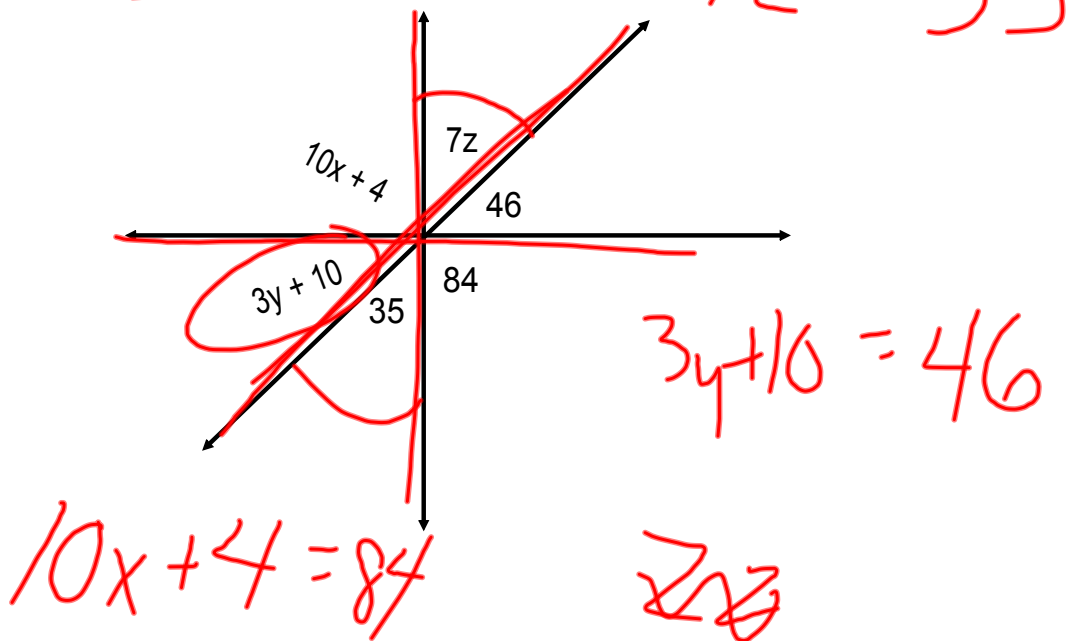
$$x = 10$$

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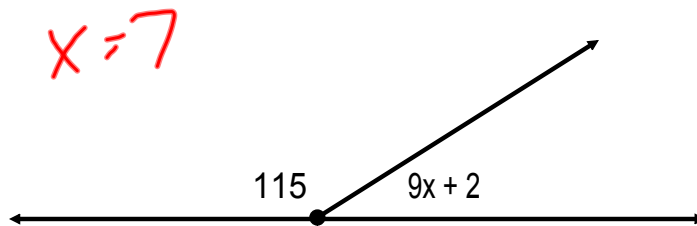
2.4 Vertical Angles and Linear Pair



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2.4 Vertical Angles and Linear Pair

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$$9x + 2 + 115 = 180$$

$$9x + 2 = 65$$

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